

PROJECT DESCRIPTION

I. GENERAL

This project involves upgrading the existing ICB to a full signal for the duration of the MD 214 bridge rehabilitation. Once the bridge construction is complete the full signal will be changed back to an ICB.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 4-phase, fully-actuated mode, with video detection.

NOTES

1. For final pavement markings, refer to the pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
2. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
4. The contractor shall maintain the continuous operation of all Interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.

CONTACTS

DISTRICT

MR. GREG WELKER
DISTRICT ENGINEER
410-841-1001

MS. KIMBERLEY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-841-1019

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-841-1039

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-841-1031

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-841-1013

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

* A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
900000	1 EA	NEMA SIZE 5 POLE MOUNTED CABINET WITH ASCII CONTROLLER, VIDEO INTERFACE EQUIPMENT

- * Use CAT CODE (Category Code) number for Insert projects.
Use ITEM number for OOTS Area Wide Projects.

EQUIPMENT LIST CONTINUED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
120500	38 LS	TEMPORARY TRAFFIC SIGNS HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SHEETING
585424	60 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
801104	64 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
816001	4 EA	VIDEO DETECTION CAMERA
816005	4 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
860284	32 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000-A	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
871201	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
807400	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
800000-A	4 EA	BAG EXISTING SIGN UNTIL COMPLETION OF PROJECT THEN RETURN TO ORIGINAL CONDITION
800000-A	1 EA	INSTALL 3" BLIND COUPLING FOR 3' LB FOR CABINET INSTALLATION
861107	80 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	200 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
805012	15 LF	1-1/4 INCH ELECTRICAL CONDUIT - GALVANIZED RISER
802501	40 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

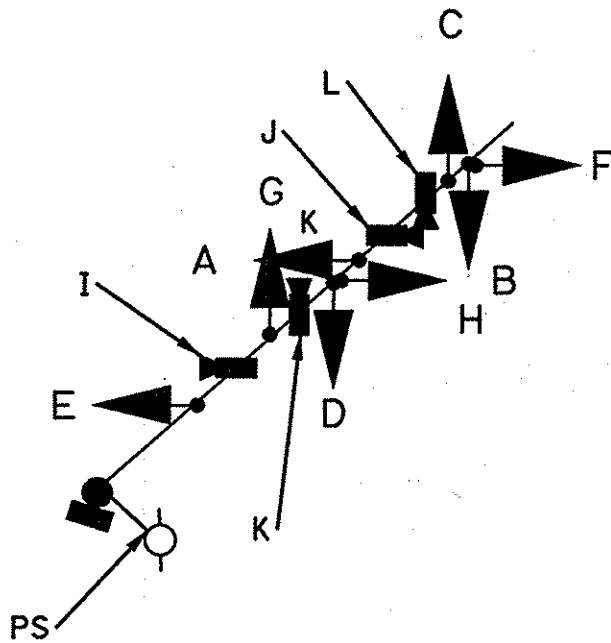
90000 SIGNAL SHOP FORCES WILL REMOVE AND KEEP THE VIDEO DETECTION CAMERA'S UPON THE COMPLETION OF THE PROJECT

PHASE CHART

1	2	3	4	5	6	7	8
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

Phase 2 & 6	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	G	G	G	G	↑
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	↓
Fleshung	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	+
Operation									-

WIRING DIAGRAM



A,B,C,D
E,F,G,H
I,J,K,L
PS
ELECTRICAL CABLE 7 CONDUCTOR 14 AWG
ELECTRICAL CABLE 5 CONDUCTOR 14 AWG
VIDEO DETECTOR CABLE
POWER FEED BY OTHERS

ADDENDUM 1

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

SCALE 1"=20' DATE 4/2/2007 CONTRACT NO.

DESIGNED BY JEFF HENKEL COUNTY ANNE ARUNDEL
DRAWN BY JEFF HENKEL LOGMILE 02042401.92
CHECKED BY TMS NO. 1460
FAP NO. TOD NO.

TS NO. 1834B DRAWING 3 OF 3 SHEET NO. OF